

### Abstract

The electrical characteristics of a measurement object 8 are measured using an electrical characteristics measurement device in which a probe 1 comprising a signal terminal 2, a ground terminal 3, and a variable resistance element 4 is connected via a coaxial cable 5 to a measuring instrument 6. The calibration of the probe 1 in such a configuration entails adjusting the resistance value of the variable resistance element, setting the impedance of the distal end vicinity of the probe 1 essentially to 0, and establishing a match with the coaxial cable 5 and measuring instrument 6. When the electrical characteristics of the measurement object 8 are measured, the resistance value of the variable resistance element 4 is varied in accordance with the impedance created by the side of the circuit containing the measurement object 8 as viewed from the contact between the measurement object 8 and the signal terminal 2 and ground terminal 3, and the input impedance of the probe 1 is set to a value that does not affect the circuit operation of the measurement object 8.